



## Danafloat™ 262T mineral collector

### Application

*Danafloat 262T* is a thionocarbamate and mercaptan thiol collector blend that is fully homogeneous and stable.

*Danafloat 262T* offers good selectivity against pyrite in sulfide flotation and can provide good to excellent flotation response to various copper minerals, including but not exclusively, chalcopyrite, bornite, chalcocite and covellite. Other applications include copper activated sphalerite, tetrahedrite and, depending on ore mineralogy, gold ore flotation. The mercaptan component makes this product a good metallic element collector and often enhances the flotation of tarnished and slightly oxidized minerals.

While the product is often used as a single collector, a xanthate reagent can be used as a partial *Danafloat 262T* replacement

and, depending on mineralogies and flotation circuit conditions, the dosage level typically is lower than xanthate on a comparative basis. *Danafloat 262T* has a greater frothing property compared to xanthate.

Because *Danafloat 262T* is relatively insoluble, water dilutions are not stable. Consequently, the product should be fed to the circuit undiluted. *Danafloat 262T* has sufficient solubility particularly under normal sulfide slurry conditions that the adsorption kinetics are relatively fast.

*Danafloat 262T* is normally used in neutral to alkaline conditions (> 6 pH). Typical dosage levels depend on ore feed grades, mineralogies and flotation responses, but typical dosage levels range between 10 to 50 grams per metric ton ore (0.020 to 0.11 lb/T).

### Composition

Chemical name: Thionocarbamate, 1-dodecanethiol, isopropanol

CAS name: O-Isopropylethylthiocarbamate

Dodecane-1-thiol

isopropanol

Active ingredient: 83-87%, 3-5% and 5-7%, respectively

### Physical properties

Appearance: Light pink

Form: Liquid

Boiling point: 124-125 degrees C

Freezing point: Minus 6 to minus 8 degrees C

Specific gravity: 0.968 g/ml at 20 degrees C

Flash point: 41 degrees C



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**Safety and handling**

*Danafloat* collectors are manufactured under the highest quality standards; nonetheless, these chemicals can be hazardous and harmful. Always read and understand the MSDS before handling the product.

Safe handling includes use of safety glasses, splash shield over face, natural rubber gloves and protective clothing. Additionally, avoid inhalation of vapours.

**Storage**

When properly stored, *Danafloat 262T* has a shelf life of at least 2 years provided the product is stored under the following guidelines:

+ Store the product in a dry and well-ventilated location away from heat and sunlight

- + Use a first in-first out inventory control
- + Avoid freezing
- + Store in plastic drums, polypropylene IBCs/totes, or coated steel drums.

**Environmental impact**

*Danafloat 262T* is biodegradable. Do not allow product to report to a natural stream as this product can cause ecotoxicity issues.

water phase and adsorbed to minerals that are not floated report to the tailings. Release of the product directly to natural water streams should be avoided.

Most of the collector is adsorbed to the concentrate mineral particles and removed from the system. Any residual in the

**Packing**

*Danafloat* mineral collectors are supplied in a range of containers including plastic drums, coated steel drums, polypropylene IBCs/totes and tank containers having the following net product weights:

IBCs/Totes	1000 - 1075 kg (2205 -2370 lbs.)
Tank containers	approx. 20 mt (44,092 lbs.)

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